Kurra, C. K. and Sevalt, F. "The extraction of conner from oxidated ores by from salt solutions," Izvestiya Kiveyak. Solutions, 17 December 1953, (Letonis 'Zhornal 'nyak Starey, No. 24, 1959)

KUDRA, O.

PA 75120

UBSR/Chemistry - Electrolysis Chemistry - Hickel Salts

Apr 1948

"The Meaning of the Second Potential in Nickel Salt Solutions," O. Kudra and Ye. Gitman, 6 pp

"Zhur Priklad Khimii" Vol IXI, No 4 76.372-77

Description of a visual method of determining 1-V surve for various cathode current densities acting on nickel salt solutions. Clarifies reasons for chemical polarization in simple salt solutions, and explains role of anions in this process. Submitted 2 Jun 1947.

75120

KUDRA, O. K.

Kudra, O. K. and Chetverikov, A. V. - "On the effect of electrolytes of other ions 1949, p. 53-68, - Bibliog: p. 67-68.

So: U-/392 10:

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949).

pure molten aging are measod of taking ous sized cat lecompn poter tablished. such simple to the decodissocn and dissocn and the decompn the decompn the decompn.	decompn potentials of pure molten ides (Agol, AgBr, and AgI) are messioned (Agol, AgBr, and AgI) are messioned of taking to a second of taking the parties and the parties of the contractions are as the contractions of the contractions are as the contraction and contraction are as the contraction and contraction are as the contra		"Secondary Decomposition Potentials in Molten Salts," O.K. Kudra, E.B. Gitman, Inst of Gen	llurgy, scomposition Potential ion Potentials in Mol E.B. Gitman, Inst of Sci Ukrainian SSR
--	--	--	---	---

			·				
USSR/Chemistry - Lithium	"Decomposition Potentials of Acetone Solutions of Lithium Chloride," O.K. Kudra, M.E. Lerner, Inst of Gen and Inorg Chem, Acad Sci Ukrainian SSR	"Ukrainskiy Khimicheskiy Zhurnal" Vol XVI,	The decompn potentials of acetone solns of lithium chloride in the concn range of 0.004 to 3.89\$ iicles to various cathode currents are detd. The presence of 2 decompn potentials in all of the solns investigated was established: the lst (low)	21288	potential corresponds to the deposition of dense of a porous, black deposit. It is shown that the 2d potential is not connected with decompating the solvent. From changes in the 2d potent tial depending on the concn, temp and add of from decompating it follows that this potential results from decompa at the cathode of complex cations of the type: [In]	ion of lithied and the established.	Single State of the State of th
			-				:

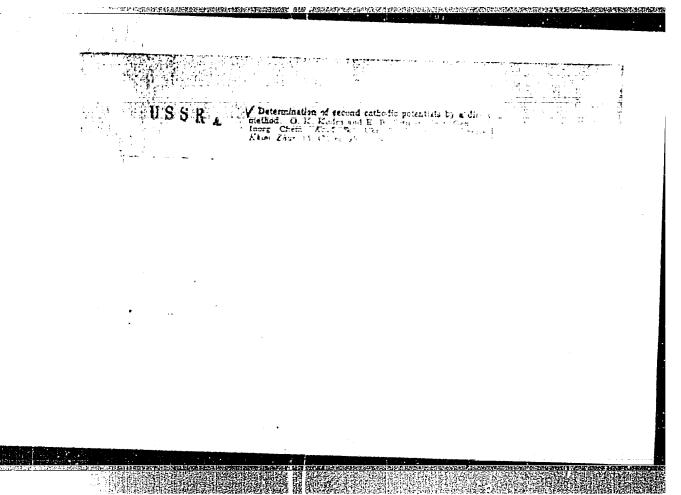
	USSR/Chemistry - Lithium	"The Decomposition Potentials of Lithium Chloride in Isobutyl and Isomyl Alcohols," O.K. Kudra, M.E. Lerner, Inst of Gen and Inorg Chem, Acad Sci Ukrainian	"Ukrainskiy Khimicheskiy Zhurnal" Vol XVI, Bo 1, pp 149-161	The decomp potentials of lithium chloride in isobutyl and isoanyl alcs are measured by a modified allows the cathode current-voltage curves which separately. The presence of 3 decompn potentials is established. The lst (low) potential is the 212-po	usual one for lithium, corresponding to the deposition of the dense metal; the 2d (medium) corresponds to a black, porous cathode deposit, and the 3d (high) is tied in with the decompn of complex cations in a manner similar to the 2d. The other physicochemical properties of the system studied.	21279
--	--------------------------	---	---	--	--	-------

higher decomps potentials. The concus corresponding great difference in values between the lower and the OTER to the most favorable conditions for getting dense, KUDRA, 0. arise, at definite solvent concus, favorable conditions for sharply delimiting zones of the dense and These zones then show studied and the presence of 3 decomps potentials es-The 1st, ordinary one corresponds to the 2127.10 complex cations with different levels of solvation, of Lithium Chloride," O.K. Kudra, M.E. Lerner, Inst forming properites of pyridine as a solvent, there "The Decomposition Potentials for Pyridine Solutions The decomps potentials of pyridine solns of lithium a black, porous cathode deposit. It is shown that deposition of dense metal and the 2 higher ones to in the system Lici - C_HSH there exists a complex equil between simple lithium ions and 2 types of chloride at various levels of cathode currents was **Jun** 50 the compn of which changes with different concus and temps. In connection with the good complex "Ukrainian Khimicheskiy Zhurnal" Vol XVI, No l, of Gen and Inorg Chem, Acad Sci Ukrainian SSR light gray lithium deposits are given. the porous cathode deposits. USSR/Chemistry - Lithium pp 162-172

KUDRA, O.K.; TUROV, P.P.

Determination of the relationship of current density to time in water and acetons solutions. Ukrain. Khim. 2hur. 16, 242-53 '50. (MLRA 4:2)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"



中中省的影響。2013年10日,1915年10日,1915年10日,1915年11日,191年11日,1915年11日,1915年11日,1915年11日,1915年11日,1915年11日,1915年11日,1915年

KUDRA, O.K.; GITMAN, Ye.B.; SHILAK, H.S.

Relation between current density, time, and concentration in electroprecipitation of lead. Ukrain. Khim. Zhur. 16, No.5, 477-83 '50. (MLRA 6:4) (CA 47 no.22:12054 '53)

1. Inst. Gen. Inorg. Chem., Acad. Sci. Ukr. S.S.R., Kiev.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

KUDRA, O.K.; GITMAN, Ye.B; SHILAK, N.S.

Relation between concentration, current density, and time in electroprecipitation of cobalt. Ukrain. Khim. Zhur. 16, No.5, 484-91 150. (MLRA 6:4)

1. Inst. Gen. Inorg. Chem., Acad. Sci. Ukr. S.S.R., Kiev.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

KUDRA, O.K.; GITMAN, Ye.B.

Effect of concentration, current density, and time on electroprecipitation of spongy silver. Ukrain. Khim. Zhur. 17, 890-901 51. (MLRA 6:4)

1. Inst. Gen. and Inorg. Chem., Acad. Sci. Ukr. S.S.R., Kiev.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

RUDEL, Ö. H.

1:107.20

USSR/Chemistry - Cadmium

Apr 51

。 1974年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1

"Decomposition Potentials of Cadmium Salts in Acetone Solution," O. K. Kudra, P. P. Turov, Inst Gen and Inorg Chem, Acad Sci Ukrainian SSR, Kiev

"Zhur Fiz Khim" Vol XXV, No 4, pp 391-397

Examd deposition of Cd from CdI2 and CdBr2 in acetone soln. Found 2 points of inflection on I-E curve at high cathodic cd's, lower potential corr to smooth deposition of Cd, higher to formation of porous black deposit. Diln produced little variation in former case, considerable in latter. Assumed existence of new cathodic process, probably discharge of complex cations, in latter case.

LU

180720

KUDRA, O.K.	8	BET BET	e a stage of	72	Thece Inst
		() 10 10 50	8 4 4 5 E 5 F	Ę	UBER/Chemistry - Electrod "Decomposition Potentials Iron and Mercury Salts," Inst Gen and Inorg Chem, BSR
		Chemistry or HgBr2, was accompanied fing that so trode.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F12	Chest omposi and l
		mistry HgBr2, mpanie that s	al curre r HgBr e 3d van metal de stage 2 w does	Khim"	dstr iitio Merc
		801 Y	(gBr ex)	Ħ	्रुयम् ।
		y - Electrodeposition (Contd) (Contd) , waves corresponding develop develop solvent participates	wrent curves of a step of exhibit 3 step on the solvent doe, the solvent doe	Vol	sistry - Electro sition Potential Mercury Salts," and Inorg Chem,
		(Contd) (Contd) s correct copious t partic	curves of auhibit 3 steps corresponds corresponds hist. A limitation wither polariot result in solvent does	XXV.	ctro
		rtic	3 step 3 step ponds A limi polar rult in t does	No	XI.e
		pond deve	of acetor steps or onds to se limiting polarizati t in yew does not	No 5,	or Ac O. K.
		(Contd) (Contd) (res corresponding to a copious development rent participates in rent partici	steps or way onds to sepn limiting cu polarization lit in yew ele does not dee	dd d	Electrodeposition of Motentials of Acetone Sois Salts," O. K. Kudra, I'rg Chem, Kiev, Acad Sci
		in r	1 0 0 0 7 0 0 0	519-522	tone 84 Kudra, cad Sc.
		or of the control of	solns Ayes. arrent arrent a of el lectrod	8	
		CHORES CO.			tals May utions of . P. Turo Ukrainian
	5		' 1.01 15 10 10 10 10 10 10		May Turov
	19075	4	LAM: Minin		4 5
		•			

KUDRA, O.K.	1907	"Decomposition Potentials of Acetone Solutions of the Salts," O. K. Endra, P. P. Turow, Inst Gen Cobalt Salts, O. K. Endra, P. P. Turow, Inst Gen Inorg Chem, Klew, Acad Sci Ukrainian SER. sand Inorg Chem, Klew, Acad Sci Ukrainian SER. "Zhur Fiz Rhim" vol XXV, No 5, pp 513-518. "Zhur	Chesistry - Electrodeposition of Metals May 51
The second second second	amayan baran men		

KubRA,

TREASURE ISLAND BIBLIOGRAPHICAL REPORT PHASE I

AID 446 - I

BOOK

Authors: KUDRA, O., and GITMAN, YE. Full Title: ELECTROLYTICAL PRODUCTION OF METAL POWDERS

Transliterated Title: Elektroliticheskoye polucheniye metallicheskikh

(1)相对的原理是国际的特殊的。

poroshkov

Publishing Data

Originating Agency: Academy of Sciences, Ukrainian SSR

Publishing House of the Academy of Sciences, Publishing House:

Ukrainian SSR

Date: 1952

No. pp.: 144

No. of copies: 3,000

Call No.: AF623815

Editorial Staff

The authors express thanks for valuable assistance to Prof.

N. N. Voronin, to senior scientific coworkers I. A. Sheka and

Z. A. Sheka and to Prof. Ya. A. Fialkov, Corr. Mem. of the Acad. of

Sci., Ukr. SSR, editor of the monograph.

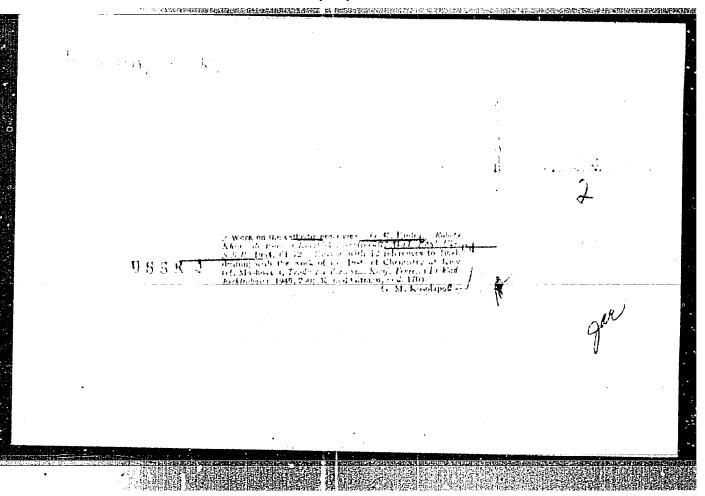
Text Data

The production of metal powders of loose cathode deposits is Coverage: already used on an industrial scale in the USSR. Accounts of the investigations of Soviet scientists and engineers (Igaryshev, Kudryavtsev, Borok, Bal'shin, Gavrilov, Yesin and Levian, Levin, Loshkarev, Kuz'min and others) are not yet systematized. The authors present this monograph as a first preliminary attempt to generalize the available data

Elektroliticheskoye polucheniye metallicheskikh poroshkov AID 44	16 - I
on the electrolytical production of metal powders.	
A large amount of reports dedicated to this problem at the All Electrochemical Conferences (in Ivanovo in 1945, in Kiev in 19 shows the need in theoretical works. The rather extensive pat literature indicates the increasing demand of industries for elytic powders. The monograph is provided with tables and diag	tent electro- grams.
TABLE OF CONTENTS	PACES 3-4
Foreword	5-10
Introduction PART I GENERAL INFORMATION	J
 Electrolysis. Conditions of the Production and Treatment of Metal Powders 	11-22
2. Composition, Structure and Properties of Electrolytic Powders	22-35
3. Mechanism of the Electrolytic Deposition of Metals under High-Density Current	35-47
4. Zones of Deposition of Compact and Loose Cathode Deposits	47-59
5. Causes of the Formation of Spongy Porous and Loose Black Deposits	59 - 69
PART II ELECTROLYTICAL TREATMENT OF LOOSE METALS 1. Production of Loose Deposits of Copper, Silver, Gold 2/3	70

' 2.	Production of Loose Deposits of Bervllium, Zinc and	AID 446 - I PAGES
_	Cadmium	84
3. 4.	Production of Loose Deposits of Aluminum and Thallium	92-96
	rrounction of Loose Deposits of Tin and Lead	96-99
5.	Production of Loose Deposits of Argenic, Antimony and	20-22
	DISMUUN	100-103
6.	Production of Loose Deposits of Chromium, Tellurium	100-103
	and Manganese	100 100
7.	Production of Loose Deposits of Iron, Cobalt and Nickel	103-105
7. 8.	Production of Loose Deposits of High-Melting Metals	105-130
	(Zirconium, Titanium, Thorium, Vanadium, Tantalum,	
	Molyhdonim Mingaton Hooritan, Vanadium, Tantaium,	
Q.	Molybdenum, Tungsten, Uranium, Platinum and Palladium)	130-136
Diinn	Production of Loose Metal Alloys or Polymetal Powders	136-138
rurp	ose: For persons interested in the production of metal page of electrolysts	powders by
****	ans of electrolysis lities: None	•
No of	Trotes: None	
NO. OI	Russian and Slavic References: 126	
AVELLA	ble: A.I.D., Library of Congress.	

3/3



THE WEST OF THE PROPERTY OF TH USSR/Chemistry - Decomposition Card 1/1 Authors Lerner, M. E., and Kudra, O. K. Title The Intensity of Decomposition of Aluminum Bromide Solutions in Ethyl Periodical Zhur. Fiz. Khim. Vol. 28, Ed. 4, 656-660, Apr 1954 Abstract Method for decomposing aluminum bromide solutions in ethyl bromide are described together with the observation and recording of the intensity and changes in decomposition by I-V curves. Ten references; tables; graphs; drawing. Institution Kiev Folytechnical Institute. Submitted June 14, 1953

USSR/Chemistry Physical chemistry

Card

: 1/1

Authors

: Lerner, M. E., and Kudra, C. K.

Title

1 Decomposition intensities of the aluminum bromide - alkali metal halide ethyl bromide system

Periodical

: Zhur. fiz. khim. 28, Ed. 6, 1006 - 1012, June 1954

Abstract

The decomposition intensities of the ternary AlBr3-MeHal-C2H5Br system were investigated at different concentrations and current-densities. In addition to two main decomposition intensities, connected with the separation of Al and Mellal, the authors discovered an additional intermediate intensity corresponding to the presence of a complex ion in the solution. The conditions most favorable for ion discharge of the MeHal from ethyl bromide solutions, are explained. Five USSR references.

Tables, graphs.

Institution: The Polytechnicum, Kiev

Submitted : June 14, 1953

Kudra, E. K.

USSR/Thysical Chemistry - Electrochemistry, B-12

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 518

Author: Kudra, O. K., and Gorodysskiy, A. V.

Institution: Kiev Polytechnical Institute

Title: Method for Investigating the Electrodeposition and Galvanic Cor-

rosion of Cadmium

Original

Periodical: Izv. Kievsk. politekhn. in-ta, 1956, Vol 17, 179-190

Abstract: In an effort to determine the possible relationship between the

quality of electroplating and the current density (i) used in its deposition, the preservation of the potential of Cd deposited on Pt, Ag, Cu, and Fe from a O.1 N solution of CdSO_h has been investigated as a function of the i used in the deposition. The method consisted in establishing the time required dor the solution of a given weight of Cd, which was determined from the jump in the potential of the electrode. It is shown that the higher the i used in the deposition of a layer of Cd on a foreign surface, the longer the time during which

Card 1/2

USSR/Physical Chemistry - Electrochemistry, B-12

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 518

Abstract: the Cd potential is maintained for the same amount of deposit. This, in the opinion of the authors, is due to the greater compactness of the deposited metal. The opinion is expressed that the new method can be developed and applied to the investigation of electrode and corrosion processes by studying the time during which the potential of the cover metal is maintained.

Card 2/2

。 《中国大学集团的特别的通过的原则的自己的特别大学和自己的特别的特别的自己的特别的自己的特别的自己的特别的自己的特别的特别的特别的特别的特别的特别的特别的特别的特别的

KUDRA, O.K., prof., doktor khim. nauk; VRZHOSEK, G.G., sapirant

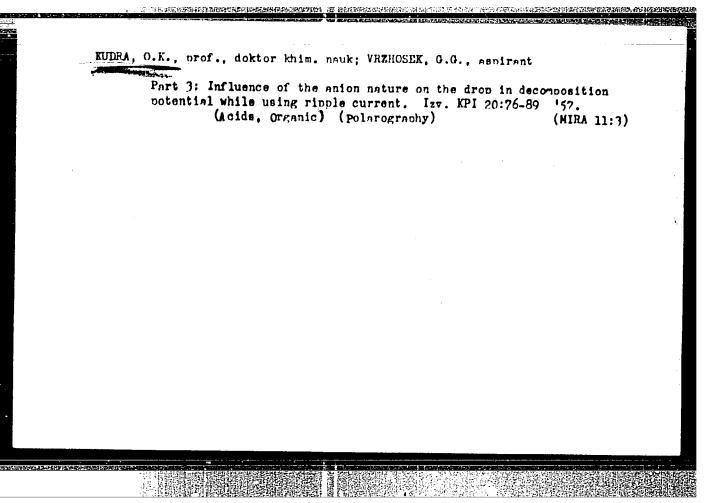
Part 1: Influence of the intermittent current on the decomposition notential of hydrochloric acid. Izv. KPI 20:52-65 '57. (MIRA 11:3) (Hydrochloric acid) (Electrochemical analysis)

KUDRA, O.K., prof., doktor khim. neuk; VRZHOSEK, G.G., aspirent

Part 2: Influence of ripple current on some anode processes.

Inv. KPI 20:66-75 '57. (MIRA 11:3)

(Hydrochloric acid) (Polarography)



153-58-1-7/29

AUTHORS:

Khotsyanovskiy, O.I., Kudra, O.K.

TITLE:

Polarographic Investigation of Halide Complexes of Cadmium in Mixed Solvents. Communication 1: Methanol-Water (Polyarograficheskoye issledovaniye galogenidnykh kompleksov kadmiya v smeshannykh rastvoritelyakh. Soobshcheniye 1: Metanol-voda)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1, pp. 43-53 (USSR)

ABSTRACT:

As is known, a solvent is not indifferent to the properties of complex compounds. The influence of various solvents on the structure of these compounds is little investigated up till now. The behavior of complex compounds in the mixtures of the solvents is almost less clarified. In this paper the authors describe a systematic polarographic investigation of the influence of aqueous solvents on the properties of some complex compounds of cadmium carried out by them (see table 1 and figure 1). The composition of these compounds and the relative liability of the constants were polarographically investigated. It was found that the addition

Card 1/2

AND THE PROPERTY OF THE PROPER

153-58-1-7/29

Polarographic Investigation of Halide Complexes of Cadmium in Mixed Solvents. Communication 1: Methanol-Water

of ethyl alcohol causes a displacement of the fields of existence (oblasti sushchestvovaniya) of the investigated complex compounds (see tables 2 to 5). A linear dependence could be found between -10 gK and 1/D in chloride, bromide and iodide complexes of cadmium. There are 5 figures, 5 tables, and 24 references, 20 of which are Soviet.

ASSOCIATION: Kafedra fizicheskoy i kolloidal'noy khimii (Chair of Physical and Colloidal Chemistry) KIEV Polyfechar INST.

SUEMITTED: September 23, 1957

Card 2/2

5(4)

AUTHORS:

Khotsyanovskiy, O. I., Kudra, O. K.

SOY/153-15-2-1/35

TITLE:

Polarographic Investigation of the Halogen Complexes of Cadmium in Mixed Solvents (Polyarograficheskoge insiedovaniye galogenidnykh kompleksov kudniy v steekhanghh rasvoritelyakh) Communication II. Ethanol-Water (Socket

uncheniye II. Etanol-voda)

PERIODICAL:

Izvestiya vyschikh uchebnykh zaveleniy. Khisiya i khislenes-

kaya tekhnologiya, 1958, Nr 2, pp 36 - 42 (USCR)

APSURACT:

In the previous paper by the authors (Ref. 1) certain rules governing the changes of the composition and the instability constants of cadmium halo complexes in aqueous methyl alcohol solutions were found. The present paper deals with the explanation of the influence of the nature of the solvent on the complexes if methanol is substituted by its homologe; it forms a logical continuation of the earlier papers.

The solutions contained 20.45 and 65 per cent by volume ethanol. Solutions containing LiCl and LiPr -

Cord 1/4

Polarographic Investigation of the Halogen Complexes STV/193-93-2-1995 of Cadmium in Mixed Solvents. Communication II. Ethanol-Water

0.1 - 2.0 M, LiJ - 0.01 - 2.0 M, LiNo - 0.1 M, and $Cd(NO_3)$ - 4.10 M were used for the polarography. The temperature amounted to $25\pm0.1^{\circ}$. The nethod is described in detail in reference 1. Figures 1-5 and tables 1,2 give the results obtained. The half-wave potential of cadmium was displaced with the increasing ethenol content on the background of the indifferent electrolyte 0.1 M LiNO, into the more positive range of potentials, as compared to aqueous solutions (Table 1, in agreement with reference 2). In the presence of hologen salts the said potential was displaced into the negative range (Table 2). As the value of the limit current remained about the same, a complex formation must be assumed. The cadmium reduction was in all cases reversible. The composition and the instability constants of the complexes formed were determined according to the came methods as relationed in refusence 1. In the 20% alcohol solution (for

Card 2/4

Polarographic Investigation of the Halogen Complexes 807/153-53-2-7/30 of Cadmium in Mixed Solvents. Communication II. Ethanol-Water

bromides) and in the 45% solution (also for chlorides) the following complexes were found: CdCl+, CdCl2, CdBr and CdBr2. In alcohol solutions with higher concentrations only the complexes CdCl2 and CdBr2 occurred. The same complexes as in aqueous solutions were found for iodide complexes of cadmium in a 20% alcohol solution (Ref 1), i.e. with coordination numbers from 1 to 4. With the increase of the alcohol content the equilibrium was displaced in the direction of the coordination saturated complexes. Already in a 65% alcohol solution the complex CdJ_A^{2-} dominated within the whole concentration range investig ted. From the comparison of the methanol solutions it may be seen that ethanol additions influence the equilibrium displacement of the complexes to a much higher degree then methanol additions. The values of the instability constant decrease with the increase of the alcohol content in the solutions. Between -100 K and 1/D exists a linear dependence for the complexes investigated.

Card 3/4

THE PERSON AND A STREET OF THE PERSON AND ADDRESS OF THE PERSON AS A STREET OF THE PERSON AS A PARTICULAR PROPERTY OF THE PERSON AS A P

Polarographic Investigation of the Halogen Complexes 507/1,3-59-2-7/30 of Cadmium in Mixed Solvents. Communication II. Ethanol-Water

It was proved that the increase of the influence of the alcohol additions of the changes of the instability constant with the increase of the coordination number is bound to the stepwise character of the dissociation of complexes. There are 4 figures, 5 tables, and 9 references, 7 of which are Soviet.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical

Institute) Kefedra fizisheskoy i kolloidnoy khimii

(Chair of Physical and Colloid Chemistry)

SUBMITTED: September 23, 1957

Card 4/4

DOROFETEVA, N.O.; KUDRA, O.K.

Physicochemical investigations of acetone solutions of hydrogen chloride.
Ukr.khim.shur. 24 no.5:592-598 ' 58. (MIRA 12:1)

1. Kiyevekiy politekhnicheskiy institut.
(Hydrochloric acid) (Acetone)

DOROFEYEVA, N.G.: KUDRA, O.K.

Physicochemical investigation of ether solutions of hydrogen chloride. Ukr.khim.shur. 24 no.6:706-711 *58. (MIRA 12:3)

1. Kiyevskiy politekhnicheskiy institut.
(Ether) (Hydrochloric acid)

507/153-2-3-7/29 5(4)

Vdovenko, I. D., Kudra, O. K. AUTHORS:

On a New Method of Investigating Diffusion Processes TITLE:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya PERIODICAL:

tekhnologiya, 1959, Vol 2, Nr 3, pp 345-351 (USSR)

The determination of diffusion coefficients according to the hitherto used methods, some of which are mentioned, still ABSTRACT: leads to considerable errors because the temperature can be

kept sufficiently constant only with difficulties. For this reason the authors used for the determination according to Skobets and Kavetskiy (Ref 1:) the current impulse which occurs in switching on the electrolysis. The electrolytes were

solutions of CuSO4, ZrSO4, CdSO4 and AgNO3 of different concentration

(Table). The current density and the period until the occurrence of the first cathode precipitation were measured. A measuring device was developed which is shown by a scheme (Fig 1). Formulas for the computation are deduced. Moreover, test series are carried out in which spherical instead of

cylindrical cathodes are used. It could be proved that during

Card 1/2

On a New Method of Investigating Diffusion Processes 30V/153-2-3-7/29

the first seconds of electrolysis the rule of the linear diffusion holds irrespective of the shape of the electrode. There are 2 figures: 1 table, and 16 references, 8 of which are Soviet.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut - Kafedra fizicheskoy i kolloidnoy khimii (Kiyev Polytechnic Institute - Chair of

Physical and Colloid Chemistry)

SUBMITTED: March 19, 1958

Card 2/2

507/155-2-4-17/32 ·5(1,2) AUTHORS: Kudra, O. K., Gudovich, N. V. TITLE: On the Mechanism of the Electroreduction of Lead in Pyrophosphate Electrolytes PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 4, pp 558 - 561 (USSR) ABSTRACT: It has been found recently that a certain quantity of anions can be adsorbed on the electrode according to the surface charge sign; later on they are either discharged or repelled. These phenomena are expressed in electrolysis by characteristic polarization curves with decleasing or increasing amperage (Refs 1-7). The investigation of complex electrolytes is interesting from a theoretical point of view if they contain an electroseparating

lytes mentioned in the title are, in a certain degree, analogous to the cyanogen baths. Above all, diluted solutions were investigated by the authors because T. A. Kryukova (Ref 8) found

metal among the anions. Cyanogen baths frequently used in electroplating belong to these electrolytes. It can be assumed that the electrocrystallization process in these baths is connected with the immediate metal separation from the anions. The electro-

Card 1/3

ene ententa legamesta de la presencia de la composición de la presención de la composición de la presención de

On the Mechanism of the Electroreduction of Lead in SOV/153-2-4-17/32 Pyrophosphate Electrolytes

that the specific effect of the anions is more distinct in such solutions. Figure 1 shows polarization curves in solutions with various ratios of pyrophosphate and lead nitrate. The initial concentration was $K_4P_2O_7$ 0.05 m and Pb(NO_3)₂ 0.03 m. It can be seen from these data that the amperage decreases rapidly if a potential of 0.600 - 0. 615 v is reached. Then the curves pass a minimum and increase again later on. Thus, specific current minima are observed in small electrolyte concentrations on the - p curves in the lead reduction from the pyrophosphate complex . The current decrease occurs near the zero charge of lead. Peptone considerably retards the lead reduction. With a certain concentration (Fig 4) the minimum and maximum on the polarization curve are thereby neutralized. This is explained by the formation of a continuous adsorption film of peptone. The presence of foreign cations facilitates the electroreduction of lead from the complex anion mentioned, anions retard it. Cations shift the zero-charge potential in positive direction, whereas anions shift it in negative direction. There are 4 figures and 9 Soviet references.

Card 2/3

On the Mechanism of the Electroreduction of Lead in SOV/153-2-4-17/32 Pyrophosphate Electrolytes

ASSOCIATION: Kiyevskiy politekhnicheskiy institut, Kafedra fizicheskoy i kolloidnoy Phimii (Kiyev Polytechnic Institute, Chair of Physical and Colloidal Themistry)

SUBMITTED: March 19, 1958

Card 3/3

生生,自分的企業的政策的政策也是自然的主義的政策的政策的企业,直通政策的企业和企业的自然(1),1946年,1955年,1955年,1955年,1955年,1955年,1955年,1956年,1956年,1956年,19

KUDRA, O.K.; VDOVENKO, I.D. Electric timer method for the analysisof solutions. Ukr.khim. (HIRA 12:4)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. (Electrochemical analysis)

shur. 25 no.1:25-31 '59

VRZHOSEK, G.G.; KUDRA, O.K.

Effect of some admixtures on polarization by a ripple current. Izv. vys.ucheb.zav.; khim.i khim.tekh. 3 no.6:1008-1010 160.

(MIRA 14:4)

1. Kiyevskiy politekhnicheskiy institut, kafedra fizicheskoy i killoidnoy khimii.

(Polarisation (Electricity)) (Electrolysis)

87508

S/073/60/026/001/006/021 B004/B054

26.1620

Vdovenko, I. D. and Kudra. O. K.

TITLE:

AUTHORS:

Method of Studying Diffusion in Electrode-near Layers in the

Absence of Current

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 1,

pp. 36-40

TEXT: The authors describe a new method of studying free diffusion in very thin, electrode-near layers. It is based on a sudden impoverishment of the electrolyte on the cathode during short-termed electrolysis at high amperage, and on observing the balance of concentration when the current is switched off. Fig. 1 shows the circuit of the measuring apparatus. The time relay 1 has a contact pair closed in the normal state, and one which is open. The closed contact pair closes the d.c. circuit to which the electrolyzer 7 is connected. The contact pair of relay 2, which is open in the normal state, is connected in parallel with the former contact pair. The winding of this relay is connected with the contact pair of relay 1, which is open in the normal state. The seconds counter 4 is

Card :/4

STATUTE OF A PARTY OF THE PARTY

Method of Studying Diffusion in Electrode-near Layers in the Absence of Current

87508 \$/073/60/026/001/006/02 B004/B054

connected with the circuit of the second contact pair of relay 2 and of the tube relay 3. The following process is conducted: The time relay 1 is adjusted for a period within which a black metal precipitate becomes visible on the cathode and the concentration in the electrode-near layer practically vanishes. When the time has elapsed, relay 1 switches off electrolyzer 7. At the same time, relay 2 is switched on, which again switches off after a given time, and switches on the electrolyzer and the seconds counter. After this process, which perresponds to the formation of a precipitate on the cathode, the terminal potential of the electrolyzer rises, and the contacts of the voltmeter 6 are closed, whereby the tube relay opens and the seconds counter is switched off. Thus, amperage and duration of electrolysis are fixed. Moreover, the circuit contains a current reverser 8, which reverses the sense of current, again dissolves the precipitate, and makes the apparatus ready for the next experiment. The amperage is adjusted by rheostat 9 and milliammeter 5. The experiments were made at 18° C with zinc-, cadmium-, and copper salts C_{D} $^{0.5}'$ was found for the amount of substance diffusel. $^{\circ}_{
m D}$ is the concentration of the diffused substance in moles/i i the current Card 2/4

87508

Method of Studying Diffusion in Electrode-near S/073/60 Layers in the Absence of Current B004/B05

\$/073/60/026/001/006/021 B004/B054

density (a/cm²), τ the duration (sec) of the analysis, calculated from the second switching-on of the electrolyzer until the appearance of the dark precipitate, and a and A are constants depending on the salt used. The following was stated: With rising concentration of the electrolyte, more substance diffuses, i.e., the rate of concentration balance is directly proportional to the initial concentration. In dilute solutions, the concentration is balanced within 30-35 seconds. Experiments with equimolar solutions of various salts showed that the diffusion rate depends on the type of anion (Fig. 4). D. N. Gritsan is mentioned. There are 4 figures and 8 references: 5 Soviet, 2 British, and 3 French.



ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev

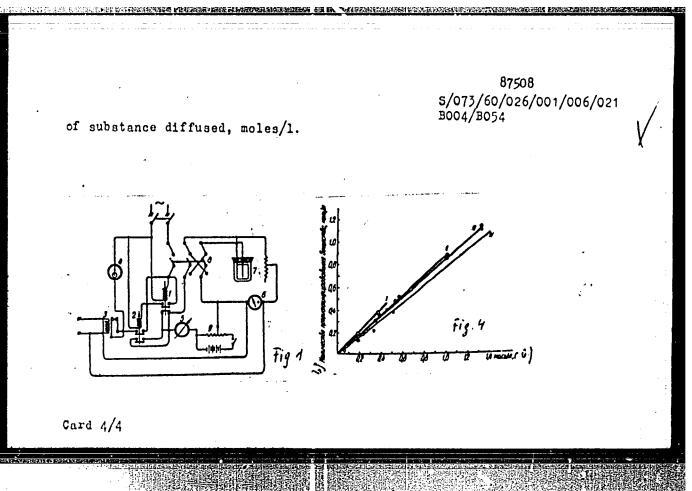
"Order of Lenin" Polytechnic Institute)

SUBMITTED:

October 27, 1958

Legend to Fig. 4: Effect of the anion on the diffusion rate. I: CdBr₂; II: CdCl₂; III: CdSO₄; IV: Cu(NO₃)₂; a) concentration, moles/1, b) amount

Card 3/4



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

VEZHOSEK, O.O.; KUDRA, O.K.

Effect of temperature on polarization in the presence of pulsating current. Ukr. khim. shur. 26 no.5:562-564 %. (MIRA 13:11)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.

(Polarization (Electricity))

LERNER, M.Ye.; KUDRA, O.K.

Decomposition potentials of nitrobenzene solutions of aluminum bromide and sodium bromides. Ukr. khim. zhur. 26 no.6:719-722 '60. (MIRA 14:1)

1. Kiyevskiy politekhnicheskiy institut i Kiyevskiy institut grashdanskogo vozdushnogo flota.

(Aluminum bromide) (Sodium bromide)

Cathodic polarization in lead pyrophosphate solutions.

Zhur.fiz.khim. 34 no.7:1616-1621 J1 '60.

(MIRA 13:7)

1. Kiyevskiy politekhnicheskiy institut.

(Lead pyrophosphate) (Polarization(Electricity))

LERNER, M.Ye.; KUDRA, O.K.

Decomposition voltages of some metal bromide solutions in nitrobenzene. Izv.vys.ucheb.zav.;khim.i khim.tekh. 4 no.3:393-396 '61. (MIRA 14:10)

1. Kiyevskiy politekhnicheskiy institut, kafedra fizicheskoy i kolloidnoy khimii.

(Bromides)
(Electromotive force)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RE

CIA-RDP86-00513R000827120013-7

S/073/61/027/001/002/002 B103/B216

AUTHORS:

Izbekova, O. V., Belinskaya, L. S., Kudra, O. K.

TITLE:

A study of the nickel-pyrophosphate bath

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, v. 27, no. 1, 1961, 118-121

TEXT: The authors have studied the usability of nickel-pyrophosphate baths which in comparison to cyanide baths have the advantages of being harmless and sufficiently stable. They studied the influence of component concentration, temperature and additives on the quality of the nickel deposit. The following additives were tested: H₂SO₄, HCl. KCl, formalin, thenol, peptone, Seignette salt and urea. The tests were carried out in a single bath or in several baths connected in series (6 x 2.5 x 9 cm, 100 ml volume) with plate-shaped nickel- and copper anodes. The back part of the anodes was isolated by a layer of paraffin or varnish. The electrode potentials were measured by means of a MNTB-1 (PPTV-1) potentiometer against a saturated calomel electrode as reference and reduced to a normal hydrogen electrode. The electrolyte composition was so chosen as to give clear and stable solutions. This was the case with solutions consisting Card 1/6

s/073/61/027/001/002/002 B103/B216

A study of the nickel-pyrophosphate bath

Card 2/6

of 0.05-0.3 mol/1 NiSO $_4$ mixed with solutions $K_4P_2O_7/NiSO_4$ of molar ratio not below 2. At a molar ratio of 2-4, the ${\rm K_4P_2O_7}$ concentration had no influence on the appearance of the nickel deposit on copper cathodes at 20°C. Variation of the So concentration within wide limits affects neither the quality of the nickel deposit nor the current yield best coatings were obtained at NiSO₄ concentrations of 0.17-0.30 mol/1 and a current density of 0.5-1.0 a/dm². At current densities around 0.1 a/dm2 the deposit is whitish with uncovered areas. At 2-3 a/dm2, the disposits are black and at yet higher current densities nickel is not deposited at all. A temperature increase widens the permissible current density range. Though hydrogen was discharged simultaneously with nickel, pitting did not occur. The authors ascribe this to the thorough agitation of the electrolyte by the hydrogen bubbles and to the high negative cathode potential. Fig. 1 illustrates the reduction in current yield at 20°C produced by increasing the current density and pyrophosphate concentration. This effect gradually diminishes on further rationg the current density and pyrophosphate excess. At lower current densities (approxi

A study of the nickel-pyrophosphate bath

S/073/61/027/001/002/002 B103/B216

mately 0.1 a/dm^2) the current yield is hardly affected by the nickel concentration. At higher current densities the yields increase with increasing NiSO4 concentration. At 40 and 60°C and 0.2 mol/1 of NiSO4 the yield is increased considerably by a temperature rise. The authors also found that the diffusibility of pyrophosphate electrolytes (according to the method by Field) is always much greater than that of acidic electrolytes. In service of pyrophosphate baths consisting only of NiSO and K4P2O7 the nickel anodes become strongly passive and the current yield drops to zero. The authors, however, used the initially mentioned additives. At a current density of 1 a/dm^2 , 2.5 g/l of KCl completely eliminated anodic passivity without detrimentary effect to the quality of the deposit. At higher current densities the anode is only partially activated by the same amount of KCl and the current yields fall short of 100%. In this case the anode is usually covered by a dark incrustation. At higher temperatures smaller quantities of KCl have a lower activating effect, but here too, the anodic current yield at 2.5-5 g/l of KCl is nearly 100%. Fig. 2 shows the influence of additives on the cathodic polarization The bath contained 0.2 M of NiSO, at a molar ratio of

Card 3/6

A study of the nickel-pyrophosphate bath

\$/073/61/037/00:/002/002 B103/B2:2

KAP-07/Niso4 = 2.5 at 20°C. The zero curve corresponds to polarization in the absence of additives. It is apparent from the curves that up to 10 ml/1 of formalin (curve 1) produces an average cathode potential increase of 100 mv and up to 50 ml/1 an increase of 150 mv (curve 2). Addition of phenol somewhat reduces polarization at low current dencities (up to 1 a/dm²). The curves 3 and 4 were taken in present of 1 and 10 g/l of phenol. The favorable effect of phenol is apparent in the increased luster of the coatings. Addition of 1 g/l of peptone or 1 g/l of peptone are g/l or peptone produce an increase of 110-120 mv. 10 g/l of Seignette salt reduce polarization by 30-35 mv. There are 2 figures and 5 references: 2 Seviet-bloc and 3 non-Soviet-bloc. The reference to English language publications reads as follows: Vaid J., Rama Char T. L., J. Electrochem.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut (Kier "Order of Lenin" Polyteshnic Institute)

SUBMITTED:

July 1, 1959

Card 4/6

d Levicii, Y.V.; ab a, 6.7.

discharage dition of 1. e from a program at e bath. thr. there far. 17 is. 1:121-127 th. (17. 12:2)

1. Hy welling order, bathing of the archive institut.

(ba. 6, 1, dig.)

DOROFEYEVA, N.G.; KUDRA, O.K.

Electrochemical properties of some nonageneous colutions of hydrogen chloride. Ukr.khim.zhur. 27 no.3 303 311 '61.

(MIRA 14:11)

1. Kiyevskiy politekhnicheskiy institut.
(Hydrochloric acid)

the contraction of the contracti

KUDRA, O.K.; TERNOVAYA, N.I.

Investigating physicochemical properties of aluminum chloride solutions in othyl n-butyl ether. Ukr.khim.zhur. 27 no.5:612-615 161. (MIRA 14:9)

1. Kiyovskiy politekhnichoskiy institut.
(Aluminum chloride) (Ether)

TERNOVAYA, N.I.; KUDRA, O.K.

Physicochemical properties of aluminum chloride solutions in dibutyl ether. Ukr.khim.zhur. 27 no.5:615-618 '61.

(MIRA 14:9)

1. Kiyovskiy politokhnicheskiy institut.

(Aluminum chloride) (Ether)

MESHKOVA, I.S.; GALINKER, V.S.; KUDMA, O.K.

Load plating with trilon B. Mashinestroenie no.3:77-79 My-Je *62.

(Lead plating)

(MIRA 15:7)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

VDOVENKO, I. D.; KUDRA, O. K.

Effect of the nature of the solvent on the diffusion of electrolytes. Ukr. khim. zhur. 28 no.3:323-326 '62.
(MIRA 15:10)

1. Kiyevskiy politekhnicheskiy institut.

(Solvents) (Electrolyte solutions)

VRZHOSEK, G. G. [Vrosek, G. G.]; KUDRA, O. K.

Overvoltage of hydrogen evolution on mercury in a ripple current. Ukr. khim. shur. 28 no.5:604-610 '62. (MIRA 15:10)

1. Kiyevskiy politekhnicheskiy institut.

(Hydrogen) (Overvoltage) (Electrodes, Mercury)

GORODYSKIY, A.V.; KUDIM, O.K.

Electrodeposition and galvanic corrosion of zinc. Ukr.khim.zhur. 28 mo.71812-815 '62. (MIRA 15:12)

1. Kiyevskiy politekhnicheskiy institut. (Zinc plating) (Electric corrosion)

LERNER, M.Ye.; KUDRA, O.K.

中国国际和中国国际的国际的国际中国国际的国际的国际的国际的国际的国际的国际的国际

Discharge potentials for sulfuric acid solutions. Izv.vys.ucheb.zav.; khim.i khim.tekh. 6 no.4:588-590 '63. (MIRA 17:2)

1. Kiyevskiy politekhnicheskiy institut i Kiyevskiy institut Grazhdanskogo vozdushnogo flota. Kafedra fizicheskoy i kolloidnoy khimii.

PRIKHODCHERKO, V.G.; SKRIPNIK, V.A.; KUDRA. O.K.

Electrodeposition of small amounts of iron on mercury. Zhur.prikl.khim.

(Mills 16:3)

1. Kiyevskiy politekhnicheskiy institut.

(Iron plating)

(Electrodes, Mercury)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

KUDRA, O.K.; FIALKOV, Yu.Ya.; ZHILOMIRSKIY, A.N.

Radicisotopic method for determining the transfer numbers in secondary systems and individual electrolytes. Zhur. neorg. khim. 8 no.7:1737-1741 J1 '63. (MIRA 16:7)

L. Kiyevskiy politekhnicheskiy institut i Institut khimii AN Indzhikskoy SSR. (Radicisotopes)

(Icns...Migration and velocity)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

KUDRA, O.K., FIALKOV, Yu.Ya., ZHITOMIRSKIY, A.N.

Transfer numbers in the system sulfuric acid - acetic acid.
Zhur. neorg. khim. 8 no.7:1742-1748 Jl '63. (MIRA 16:7)

1. Kiyevskiy politekhnicheskiy institut i Institut khimii AN
Tadzhikskoy SSR.

(Sulfuric acid) (Acetic acid)
(Ions—Migration and velocity)

DOROFEYEVA, N.G.; VRZHOSEK, N.I.; KUDRA, O.K.

Electrochemical properties of hydrogen bromide solutions in isosmyl alcohol. Ukr. khim. shur. 29 no.2:156-161 '63.

1. Kiyevskiy politekhnicheskiy institut.
(Hydrobromic acid) (Isopentyl alcohol)
(Electrochemistry)

KUDRA, O.K.; ZHITOMIRCKIY, A.N.; FIALKOV, Yu.Ya.

Electric transfer of ions in absolute sulfuric acid. Dokl. AN SSSR 151 no.2:377-379 Jl '63. (MIRA 16:7)

1. Kiyevskiy politekhnicheskiy institut. Predstavleno akademikom V.I.Spitsynym.

(Ions-Migration and velocity) (Sulfuric acid)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

KUDRA, O.K.; FIALKOV, Yu.Ya.; TARASENKO, Yu.A.

Physicochemical analysis of the systems trifluoroacetic acid - indifferent solvent. Ukr. khim. zhur. 30 no.4: 347-353 '64. (MIRA 17:6)

1. Kiyevskiy politekhnicheskiy institut.

PRIMODERAND, V.S. [Prykholohanko, V.H.]; hdman, C.M.; sould in, V.A. [Shrypnyk, V.O.]

Effect of surface-active agents on the kinetics of electrodeposition of iron on a sereury cathode. Bop. All that me.12:120-1224 163.

(HIA 17:9)

1. Kiyovskiy politekhnicheskiy institut. Fredstavlene akademikom All Ukrish Yu.K. Delimarskim [Delimars Cyi, 10.K.].

System formed by mitrocred bits a desertation of a contrability of 1900 and the contrability of 1900 and 1900 an

THE PROPERTY AND ADMINISTRATION OF THE PROPERTY OF THE PROPERT

KUDRA, O.K.; FIALKOV, Yu.Ya.; THITOMIRSKIY, A.N.

Transference numbers in the systems formed by water with sulfuric and orthophosphoric acids. Thur. neorg. khim. 9 no.10:2454-2457 0 164. (MIFA 17:12)

1. Kiyevskiy politekhnicheskiy institut i Institut khimii AN Tadzhikskoy SSR.

FIALKOV, Yu.Ya.; FAKASELKO, Yu.L.; KUDRA, 6.5.

Enysicochemical analysis of binary systems formed with formic acid and enters. Thur. ob. knim. 3/. no.12:3362-3866 D '(A (NIRA 18:1))

FIGUROV, Yu.ia.; TARASTNES, Yu.A., KS.C.S. O.A.

Binary dystems formed by the c.yl. complexes of started chloride with mert antivonts. Thur, nears, khim. 10 no.1.21-236 (a 165, 1-85) (

FIALKOV, Yu.Y., ZHITOMIRSKIY, A.N., KUDRA, O.K.

with orthophosphoric and monochloroacetic acids. Zhuraneorg. khim. 10 no.4:934-938 Ap 165. (MIRA 18:6)

1. Kiyevskiy politekhnicheskiy institut i Institut khimii AN Tadzhikskoy SSR.

CALINKER, V.S.; MESHKOVA, L.S.; KUDRA, O.K.

Cathodic polarization during the separation of lead from trilonate complex electrolytes. Ukr. khim. zhur. 31 no.8:866-871 '65. (MTRA 18:9)

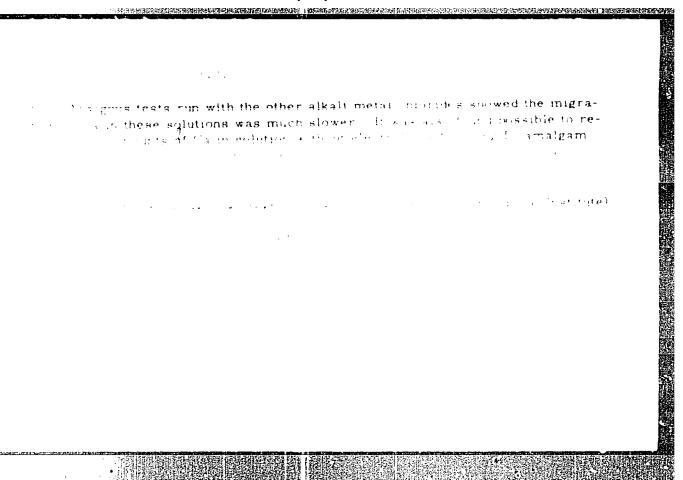
1. Kiyovskiy politekhnicheskiy institut.

FIALKCY, Yu.Ya.; CHVIRUK, O.V.; KUDRA. O.K.

Physicochemical analysis of binary liquid systems formed by smines. Part 1: Systems diphenylamine-amines. Thur. ob. khim. 35 no.9:1523-1529 S '65. (MIRA 18:10)

1. Kiyevskiy politekhnicheskiy institut.

		2 73
	and the second of the Commence of the second	-
	GS: alkali metal chloride electrolysis, culcium conta	mination, calcium
removal, <u>U</u>	ithium electrolysis, lithium calcium separation	
A TSOUTH IS A COST	The migration of microammints of the control of	iC' solutions to
	The magnation of this control of the	
,		



GALINKER, V.S.; MILOVZOROV, V.P.; KUERA, O.K.

Study of a new electrolyte for copper electroplating. Ukr. khim. shur. 31 no.9:957-951 '65. (MIRA 18:11)

1. Kiyevskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

FIAIKOV, Yu.Ya.; TSENDROVSKAYA, V.A.; KUDRA, O.K.

THE PROGRAMMENT OF THE PROGRAMME

Temperature viscosity coefficients of binary systems. Ukr. khim. zhur. 31 no. 12:1267-1275 '65 (MIRA 19:1)

1. Riyevskiy politekhnicheskiy institut. Submitted February 24, 1964.

KUDRAS, W.

KUDRAS, W. Protection against the molding of building timber in warehouses. Przeglad. p. 70

Vol. 8, no. 5, May 1956 PRZEGLAD KOLEJOWY DROGOWY TECHNOLOGY Warszawa, Poland

So: East European Accession Vol. 6, no. 2, 1957

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

L 11111-66 FAT(d)/FAT(1)/FMP(c)/FMP(v)/T/FMP(k)/FMP(1)/FWA(h)/FTC(m) ACC NRI ACC NRI AP5025667 UR/0167/65/000/004/0011/0018

AUTHOR: Borisoglebskiy, P. V.; Kudratillayev, A. S.

TITLE: Physical conditions for an efficient detection of flaws in high-voltage pulsed capacitors

SOURCE: AN UZSSR. Izvestiya. Seriya tekhnicheskikh nauk, no. 4, 1965, 11-18

TOPIC TAGS: capacitor, dielectric breakdown, dielectric insulation, flaw detection

ABSTRACT: The physical processes accompanying the rise of partial discharges and local defects in the insulation of high-voltage pulsed capacitors used as energy reservoirs for high pulsed currents are discussed. It is shown that in high-voltage pulsed capacitors with a large number of parallel- or series-connected sections there exists a pre-breakdown state caused by the development of ionization processes due to the presence of such defects as cracks, various inhomogeneities, and air and other inclusions in insulation, which ultimately lead to the dielectric breakdown of the capacitor. The breakdown of one section does not immediately lead to the breakdown of the entire capacitor. The flaw finder may be adjusted to signaling the appearance of the first section with breakdown. The resistance of the breakdown channel of the defective section is a function of the magnitude of current flowing through this chanel. The "metallic zero" resistance of the breakdown channel of the

Card 1/2

defective section may be eliminated by means of a specified number of discharges of the capacitor battery, which includes the capacitor with the defective section, at up to 50% of its rated voltage (with respect to its rated load resistance). As the pulsed discharge current passes through the defective section, a shock wave arises in the breakdown channel and is recorded by appropriate instruments. Orig. art. has: ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut (Moscow Energetics—(Uzbek Scientific Research Institute of Fauther and Fauther energetiki i avtomatiki					
(Uzbek Scientific Resea SUBMITTED: 10Mar65	rch Insti	ENCL: 00	ics and Auto	SUB CODE:	
10 REF SOV: 004) () () () () () () () () () (OTHER: 001			AG
		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			
:		:			
2/2				•	
			· · · · · · · · · · · · · · · · · · ·		1

USSR / Cultivated Plants. Commercial. Oil-Bearing. M-5 Sugar-Bearing.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25122

MERCHA KARRENGKERMERKERME IN FERMUNIST

Author : Kudratullayev, A.

Inst : Not given

Title : The Technique of Irrigating Cotton Under the Con-

ditions of the Region About the Middle of the

Course of the Amu-Dar'ya River

Orig Pub: Izv. AN TurkmSSR, 1957, No 1, 72-78

Abstract: Tests were made in 1953-1955 at the Chardzhouskaya Experimental Station and in the kolkhoz im. Lenin in Chardzhouskiy Rayon. The length of the furrows, the size of the streams, the gradients, and the row spacing were studied. The best results for the first irrigations were gotten by cutting deep irrigation furrows, which with 60 cm. space between

Card 1/2

105

WRPROVED FOR RELEASE taQ6¢100/20001. CIA-BDP86gQ0543R000827120013-Sugar-Bearing.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25122

Abstract: rows went to a depth of 14-16 cm. and for subsequent irrigations to a depth of 18-20 cm. With 45 cm. space between the rows for the first irrigations, the furrow depth was 12-14 cm. for the first watering and 16-18 cm. for dubsequent irrigation. Information is given on the length of the furrows and the amount of the streams in relation to the gradient of the locality and the physical water properties.

The raw cotton yield increased with the lengthening of the furrow with identical streams and dropped with an increase in the stream. -- P. I. Kizima

KUDRATULLAYEV, N.K. Sensitivity of diphtheria becteria to antibiotics. Zdrav. Turk. 8 no.2126-28 F'6/, (MIRA 1714) 1. Iz Ashkhabadskogo instituta epidemiologii i glijye y (dirodotsent Yo. S.Popova, rauchnyy rukovoditel prof. Yo.Ya. Gleyberram [deceased]).

CHALYY, A.A.; EUDRAVITS, G.V.; AFOCHA, A.T.

Flow sheet for preparing a new mine level under complex mining and geological conditions. Stor. trud. Inst. gor. dela AN URBA no.13286-31 163

KUDRAVETS, G.V., gornyy inzh.

*** THE STREET STREET TO STREET THE PROPERTY OF THE PROPERTY O

Readers' reply to the article by N.G.Kapustin "New method of determining the most advantageous area of the cross section of workings in flow series of lowest mine pressure"; "Ugol'", 1963, No.9. Ugol' 39 no.12:63-64 D'64. (MIRA 18:2)

1. Donetskiy nauchno-issledovatel*skiy ugol*nyy institut.

· 公司公司的基础中的基础的基础的基础的基础的基础的基础的基础的基础的

KUDRAVTSEV, M.G., podpolkovnik meditsinskoy sluzhby; CHUKHLOVIN, B.A., podpolkovnik meditsinskoy sluzhby, kand.med.nnuk

Detection of salmonelloses in a group of acute gastrointestinal diseases.

Voen.-med. zhur. no.7:47-48 J1 '61. (MIRA 15:1)

(SALMONELLA) (INTESTINES_DISEASES)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

80803

3,5000

SOV/124-59-9-10352

Translation from: Referativnyy zhurnal, Mekhanika, 1959, Nr 9, p 113 (USSR)

AUTHORS:

Vlasenko, G.Ya., Deryagin, B.V., Kudravtseva, N.M., Prokhorov,

P.S., Storozhilova, A.I., Churakov, V.V.

TITLE:

Flow Methods for Investigating Atmospheric Aerosols

PERIODICAL:

V sb.: Issled, oblakov, osadkov 1 grozovogo elektrichestva.

Leningrad, Gidrometeoizdat, 1957, pp 185 - 188

ABSTRACT:

Not only the number of particles within the volume unit, but also their dimension distribution can be determined by the ultramicroscopic flow investigation method. For this purpose, an optical discriminator (photometric wedge), making it possible to obtain the particle-brightness distribution, was mounted into the target illuminating device of an ultramicroscope. A new wedge-graduation method is described; the graduation curves of the dependence of particle dimensions on the wedge position can be obtained quickly, when applying the method mentioned. The authors report on the flow method applied to the study of the atmospheric condensation nuclei. For this purpose, a simple

Card 1/2

THE CONTRACT PROPERTY OF THE P

80803

SOV/124-59-9-10352

Flow Methods for Investigating Atmospheric Aerosols

accessory device is developed for "revealing" the condensation nuclei containing in the atmosphere. This accessory device consists of an airmoistening chamber and a cooling channel, in which vapor condensation on the condensation nuclei proceeds. The condensation nuclei, enlarged in this way, are carried away by the air current, arrive at the cell of the ultramicroscope, and can be recorded by the observer. The optimum operation conditions of the device were determined experimentally. By the ultramicroscopic flow method, the automation of registering aerosol particles or "revealed" condensation nuclei can be brought about. The design of an automatic counter developed for this purpose is presented. This counter carries out the registration of aerosol particles of high numerical concentrations without failing.

S.V. Severin

Card 2/2

X

一个方式是10.668对西部建筑的的原理的第四位的1000的正规程度,但是这些数据的网络1000的设计,1000的设计,1000的设计的设计和设计和1000的设计和1000的设计和1000的设计和1000的设计和1000的

ROZHANSKIY, M.O., starshiy nauchnyy sotrudnik, kand.biologicheskikh nauk.; SERGAYEVA, A.V., aspirant; KUDRAYASHOV, A.G., aspirant; VITT, V.O., doktor sel'skokhozyaystvennykh nauk, prof.

Changes in the volume of circulating blood in suckling foals [with summary in English]. Izv. TSKHA no.1:233-238 *62. (MIRA 15:6) (BLOOD VOLUME) (COLTS)

KUDRAYASHOV, A.N., aspirant

Results of crossing cattle breeds of greatest interest in agricultural planning in Vladimir Province. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:260-264 '62. (MIRA 17:1)

1. Kafedra razvedeniya seliskokhozyaystvennykh zhivotnykh (zav. - prof. V.Ye. Alitshuler) Ivanovskogo seliskokhozyaystvennogo instituta.

West The - -

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

SHEVCHUK, I.A.; MAYDUKOVA, T.P.; KUDRENKO, I.A.; OLEVINSKIY, M.I.; PETRACHKOV, F.A.

Preparation of sodium thiocyanate from hydrogen cyanide contained in coke-oven gas. Khim.prom. no.5:375-376 My '62. (MIRA 15:7)

(Sodium thiocyaniste) (Hydrocyanic acid)
(Colles-even gas)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

KUDRENKOV, B.I.

In the academic council of the All-Union Scientific Research Institute for Road Construction and Maintenance. Avt. dor. 19 no.10:32 0 *56. (MLRA 9:12)

(Pavements--Testing)

KUDRENKOV, B.I.; MUDROV, G.G.; POLYAKOVA, A.I.

New requirements of stone materials. Avt.dor. 27 no.l;27-29
Ja '64.

(MIRA 17:4)

PLAGOV, V., inzh.; KUDRETS, V., inzh.

Marine sanitary-engineering installations from plantics. Mor. flet. 24 no.8:29-30 Ag *64. (MJRA 18:7)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

BLAGOV, V.A., inzh.; TKACHENKO, V.A., inzh.; KULHETE, V.S., inzh.

Manufacture of plantic ship furniture by the method of compressed air molding. Sudostroenie 30 no.5244-46 My 'c4.

(MIRA 17:6)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827120013-7"

History, T. Charteal substance affective charges the new grate. Tell. RCCFSchiff & Au Ermis, Softya. Vo. 10, no 7, July 155.

SO; Loathly List of East Surogean Accessions. (LDNL), ED, Vol. R no. 10, Oct. 1055. Uncl.

KUDREV, T.; TYANKOVA, L. [Tiankova, L.]

Effect of certain plant substances on the restoration of nitrogen exchange in drought-damaged plants. Doklady BAN 14 no.5:523-526 '61.

(Nitrogen) (Plants)

KUDREV, T.; TYANKOVA, L. [Tiankova, L.]

On the nitrogen absorption by wheat plants recovering from drought damages. Doklady BAN 15 no.2:219-221 162.

1. Submitted by Corresponding Member Y. Milkovski.